DEPARTMENT OF LAND AND NATURAL RESOURCES Earthquake Damage Daily Report Date: 12/5/06

Control #	Island	District	Facility Description	Project Description	County	Category	Other Comments	Latest Action Taken
01	Hawaii	North Kona	Recreational Facility (pier)	Kailua-Kona Pier - Structural assessment, design, and construction to repair earthquake damage to facility.	Hawaii	В		Assessment/Report/Estimate completed. Report available at http://www.hawaii.gov/dlnr/reports/earthquake/index.html Project in design phase. See item #41 for design costs and actions.
02	Hawaii	South Kohala	Recreational Facility (pier)	North Kawaihae SBH - Structural assessment of facilities, design, and construction to repair earthquake damage to facility.	Hawaii	В		Assessment/Report/Estimate completed. Report available at http://www.hawaii.gov/dlnr/reports/earthquake/index.html.
03	Hawaii	South Kohala	Recreational Facility (pier)	Has been combined with #02	Hawaii			
04	Hawaii	South Kona	Safety Zone	Buoys and moorings at Kealakekua Bay, in conjunction with State Parks rock fall assessment and safety measures	Hawaii	В		DOBOR to borrow temporary buoys from the Iron Man. Coast Guard approval of buoys. Placement occurred 11/3/06. Adjustments made 11/6/06. Map of buoy locations has being generated and is attached at end of report.
05	Hawaii	Various	Various	Inspection of facilities, infrastructure, trails and lands for damages, public safety, signage and posting.	Hawaii	В		Initial Assessment completed. Initiated short term repairs as staff and funding permitted. Long-term repairs waiting pending additional funds.
06	Hawaii	North Kona	Recreational Facility (building)	Facilities Repair - Pu'u Wa'awa'a Cabin Damage - Repair of broken pipes.	Hawaii	E		Repair completed 10/20/2006.
07	Hawaii	North Kona	Recreational Facility (building)	Facilities Repair - Honuaula Cabin water tank removal, Demolish water tank and dispose of debris.	Hawaii	Е		Repair pending availability of field crew.
08	Hawaii	North Kohala	Recreational Facility (parking lot)	Pololu Parking Lot - level and repave parking lot, rebuild retaining wall.	Hawaii	G		HDOT has FINISHED road, parking lot-lookout repairs. HDOT to open road and parking lot on Friday 11/3/06. Need emergency funding to repair trail. Anticipate over 100 cars/weekend day visitation and estimated 50% use trail when open. Site visit with FEMA November 29, 2006.
09	Hawaii	North Kohala	Recreational Facility (trail)	Pololu Trail - reroute trail, remove debris and scale slopes above trail.	Hawaii	G		Pololu Trail opened as of 11/22/06.
10	Hawaii	North Kohala	Recreational Facility (trail)	Kohala Ditch Trail - clearing landslide, restore trail grade and replace 3 bridges.	Hawaii	G		Closed to public - waiting for additional funding for repairs.
11	Hawaii	North Kohala	Recreational Facility (trail)	Alakahakai Trail - reroute trail, signage, and monitor.	Hawaii	G		Closed to public - waiting for landslide to stabilize to remove debris and reroute.
12	Hawaii	North Kohala	Recreational Facility (trail)	Kapaloa Falls Trail - clearing landslide debris, restore trail grade, signage and scale area above trail and replace bridge.	Hawaii	G		Closed to public - waiting for additional funding for repairs.
13	Hawaii	Hamakua	Recreational Facility (trail/road)	Mauna Kea Hunting Road - clearing landslide debris from roadway.	Hawaii	С		Clearing is complete and area open to public.
14	Hawaii	North Kohala	Recreational Facility (trail)	White Road Trail - clearing landslide debris, restore trail grade, scale slide area and replace signage.	Hawaii	G		Closed to public - waiting for additional funding for repairs.
15	Hawaii	North Kona	Drainage	Honuaula Forest Reserve - clearing collapsed Rockwall debris from boundary and restoring drainage.	Hawaii	А		Waiting for availability of equipment.
16	Hawaii	North Kona	Reservoir	Waikoloa Reservoir 1&2. Staff responded to provide assistance to command post for draining reservoirs.	Hawaii	В		No further action required at this time.
17	Hawaii	North Kohala	Recreational Facility (trail)	Muliwai Trail - assessment and debris removal and monitor.	Hawaii	G		closed to public - waiting for landslide to stabilize to remove debris. Inspecting on Nov.22,2006. still closed and needs additional inspection due to sizeable aftershock on Nov. 23, 2006 (Thanksgiving Day).

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18	Hawaii	North Kohala	FEMA Operations Center	Assist with obtaining use of Waimea Hunter Ed building for FEMA operations center.	Hawaii	G		No further actions needed at this time.
19	Hawaii	Hamakua	Stream	Waipio Valley - landslide has partially blocked streams in the Waipio, Pololu and Waimanu Valleys. DOFAW assisting Hawaii County Civil Defense in assessment and possible debris clearing procedures as needed. Site under monitoring by Hawaii County Civil Defense.	Hawaii	В		DLNR Staff coordinating with Hawaii County Civil Defense to provide assessment and response if conditions warrant. Assessment with SCD shows that area no longer poses a threat of danger.
20	Hawaii	Hamakua	Recreational Facility (building)	Minor repairs to Keanakolu Cabins.	Hawaii	Е		Carpenter and helper repair pipes and foundation. Will repair tank and toilet pipes later.
21	Hawaii	Kona	Historic rock wall	Kuakini Wall	Hawaii	G		Assessing if rebuilding is possible or desirable
22	Hawaii	Hawaii	Historic & Cultural Sites	Initial assessment with a possible Joint FEMA Civil defense re- assessment required	Hawaii	G		
23	Hawaii	South Kona	Kealakekua Bay	Rock fall assessment, signage, safety measures, etc.	Hawaii	G		Recommend creation of a water safety zone to keep swimmers/boaters away from the rock fall zone. 10/26 DLNR issued an order that creates ocean and land safety zones within Kealakekua Bay that will be closed to the public. The order closes public access to the Pali and Ka'awaloa flat land sections within the Kealakekua Bay State Historical Park, until DLNR determines that the closed ocean waters and land may be safely reopened for public use. Geologists recommend keeping Ka'awaloa Flat closed for 1 month or until the threat of aftershocks has passed. Toured with FEMA on Mon. 11/13/06
24	Hawaii	South Kona	Kealakekua Bay	Cliff face restoration	Hawaii	G		Toured with FEMA on Mon. 11/13/06. Additional visit Nov.29,2006, after the large aftershock on Nov.23, assessment to be done.
25	Hawaii	South Kona	Kealakekua Bay	Rock Fall mitigation, slope stabilization	Hawaii	G	Need rock fall contractor formal evaluation	Mitigation measure(s) to be determined, cost estimate may be reduced considerably if recommended alternative of doing nothing is adopted. Toured with FEMA on Mon. 11/13/06
26	Hawaii	North Kona	Hulihe'e Palace	Historic Site.	Hawaii	G	Palace closed for safety due to lack of structural integrity of the building.	Report available at http://www.hawaii.gov/dlnr/reports/earthquake/index.html. Toured with FEMA on Mon. 11/13/06
27	Hawaii	East Hawaii	Kalopa State Park	Chimney in the dining pavilion has sustained some damage.	Hawaii	G	Dining pavilion services all the cabins at Kalopa.	Evaluation of the damage and quote to repair is pending.
28	Hawaii	South Kohala	Hapuna Beach Park	Hapuna Beach State Recreation Area. A- Frame Shelter repair, Beach Park comfort station wall, electrical, roof, concession building, and pavilions.	Hawaii	G	Pavilions to be evaluated; evaliation found light damage.	Report available at http://www.hawaii.gov/dlnr/reports/earthquake/index.html. Site visit with FEMA/SCD 11/21/06. Additional damage discovered is similar to the previous damage reported.
29	Hawaii	North Kohala	Kamehameha Birth site & Mookini Heiau	Kohala Historical Sites State Monument - Kamehameha Birth site rock wall restoration.	Hawaii	G	Follow historical consultation process. Received consultant report on both Kamehameha Birth site and Mo'okini Heiau.	Report available at http://www.hawaii.gov/dlnr/reports/earthquake/index.html Site visit with SCD, and FEMA on Wed. Nov. 22.
30	Hawaii	North Kohala	Lapakahi	Lapakahi State Historical Park - Rock wall restoration.	Hawaii	G		A volunteer group has proposed to help. Report available at http://www.hawaii.gov/dlnr/reports/earthquake/index.html . Site visit with FEMA/SCD 11/21/06
31	Oahu	Honolulu	Iolani Palace	Historic Structure, Iolani Palace	Honolulu	Е	DAGS assisted FEMA in inspecting Iolani Palace, Old Archives, Iolani Barracks,	Cost estimates have been taken from FEMA preliminary damage assessment site estimate.
32	Kauai	Hanalei	Recreational Facility (trail)	Trail survey.	Kauai	G		No damage, trail was temporarily closed for survey to ensure public safety for hikers.

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Facility								
Control	Island	District	Description	Project Description	County	Category	Other Comments	Latest Action Taken
33	Maui	South Shore	Makena	Puu Olai Landslide, Big Beach, and Black Sand Beach.	Maui	G	Black Sand Beach and Puu Olai closed. Earth Tech to inspect.	Area closed. Aerial and land surveys conducted Fri. 10-27, awaiting formal report. Black Beach side prone to cinder slides that may continue. Big Beach side may require hydraulic or scaling intervention. Signage is in place. Report available at http://www.hawaii.gov/dlnr/reports/earthquake/index.html
34	Oahu	Honolulu	Landslide	Landslide damage in Makiki and estimated cost associated to take corrective action.	Honolulu	В	TMK(1)-2-46-2:33	Working with Board of Water Supply (Pipe found located under cinder slide). Consultant is on board and currently assessing the damages and plans for corrective actions.
35	Statewide	_	-	DOCARE staff time - Oahu, Maui, Hawaii.	Statewide	В		
36	Statewide	_	-	Initial General Assessments of Earthquake Damages and Inspection of Trail closures and Public Safety, Staff Time on Maui, Oahu, and Hawaii.	Statewide	В		
37	Statewide	=	-	Statewide dam inspections- all Islands.	Statewide	В		Inspection Completed/funded under FEMA Tech. Assistance Mission. Reviewing findings and transmitting reports to owners.
38	Statewide	_	_	Statewide emergency dam safety inspections.	Statewide	В		Inspection Completed. Reviewing findings.
39	Statewide	_	-	Statewide emergency dam safety inspections DLNR staff costs includes OT/Per diem/Travel expenses.	Statewide	В		
40	Statewide	_	_	Statewide emergency dam safety inspections - Private consultants.	Statewide	В		One contract completed.
41	Hawaii	North Kona	Recreational Facility (pier)	Design for Kailua Kona Pier	Hawaii	G		
42	Oahu	Honolulu	Recreational Facility (park w/hiking & fee)	Diamond Head State Monument: closed the day of the earthquake for public safety and inspection.	Honolulu	В		No damage to facility. No further actions needed from State Parks.
43	Oahu	Honolulu	Building	Historic Structure, Old Archives Building	Honolulu	Е	DAGS assisted FEMA in inspecting Iolani Palace, Old Archives, Iolani Barracks,	made into its own item on Nov. 30, 2006. Previously combined with item #31
44	Oahu	Honolulu	Building	Historic Structure, Iolani Barracks	Honolulu	Е	DAGS assisted FEMA in inspecting Iolani Palace, Old Archives, Iolani Barracks,	made into its own item on Nov. 30, 2006. Previously combined with item #31
45	Hawaii	South Kona	Recreational Facility (pier)	South Kawaihae SBH - Structural assessment, design, and construction to repair earthquake damage to facility.	Hawaii	В		Site visit conducted on Nov 1, 2006. Cracks noted on roadway. Further assessment to be done.
				Total				

Description

Debris removal
Emergency Protective Measures
Roads and Bridges
Water Control Facilities
Buildings and Equipment
Utilities

Other - Parks, Recreational Facilities, etc.

Control Number - Will be the number used by SCD and FEMA to identify DLNR project # _. New projects (40 +) will follow in order and therefore may not be arranged by county and then division.